

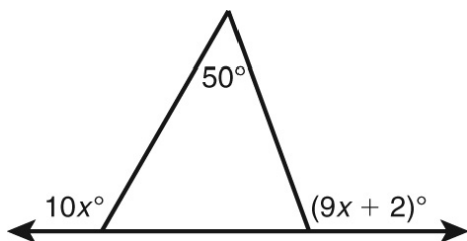
RGeometry Chapter 6 Practice Test**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- _____ 1. \overrightarrow{RL} bisects $\angle SRA$. Suppose $m\angle LRA = 45^\circ$. What type of angle is $\angle SRA$?

A. acute
B. obtuse
C. right
D. straight

- _____ 2. What is the value of x ?



F. 2
G. 5
H. 12
J. 19

- _____ 3. The hypotenuse of an isosceles right triangle is 6. What is its area?

A. 4.5
B. 9
C. 18
D. 36

- _____ 4. $\triangle JKL$ is an equilateral triangle. Its medians intersect at W . If $KW = 12\sqrt{3}$, what is the length of the median that \overline{KW} is on?

F. $8\sqrt{3}$
G. $18\sqrt{3}$
H. $24\sqrt{3}$
J. $36\sqrt{3}$

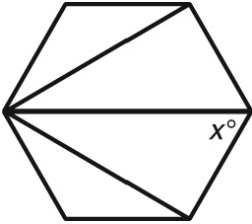
- _____ 5. In $\triangle QRS$, X , Y , and Z are the midpoints of \overline{QR} , \overline{RS} , and \overline{QS} , respectively. $m\angle Q = a^\circ$ and $m\angle R = b^\circ$. What is $m\angle YXZ$?

A. a°
B. b°
C. $(a + b)^\circ$
D. $(180 - a - b)^\circ$

- _____ 6. The perimeter of a regular polygon is 36 centimeters. The length of one side is 4.5 centimeters. Which identifies the polygon?

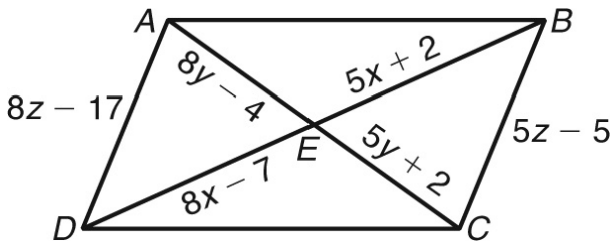
F. decagon
G. hexagon
H. octagon
J. pentagon

- _____ 7. The figure is a regular polygon. What is the value of x ?

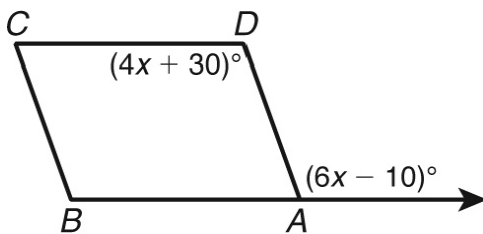


- _____ 8. The exterior angles of a triangle measure $5x^\circ$, $(x+61)^\circ$, and $(3x+38)^\circ$. Which is the best classification of the triangle?
- F. acute
G. equiangular
H. obtuse
J. right
- _____ 9. Three vertices of parallelogram $ABCD$ are $A(-2, -2)$, $B(2, 1)$, and $C(0, 7)$. What are the coordinates of vertex D ?
- A. $(-4, 4)$
B. $(4, 10)$
C. $(0, -8)$
D. Not here

- _____ 10. $ABCD$ is a parallelogram. What is the perimeter of $\triangle AED$?

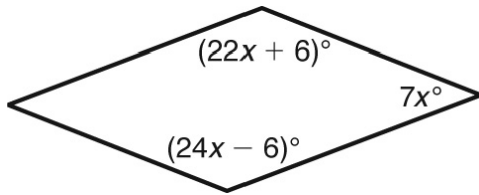


- F. 5.5
G. 29
H. 19
J. 44
- _____ 11. In $\square ABCD$, what is $m\angle DAB$?



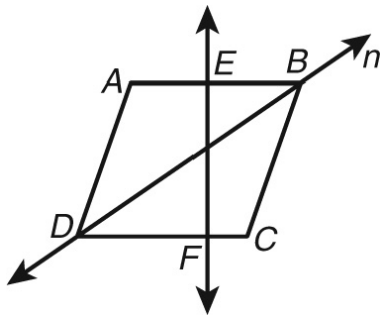
- A. 7°
B. 70°
C. 110°
D. Not here

- _____ 12. For what value of x will the quadrilateral be a parallelogram?



- F. 4
G. 5
H. 6
J. 7

- _____ 13. If $\overline{AD} \parallel \overline{BC}$, which CANNOT be used to justify the statement that $ABCD$ is a parallelogram?

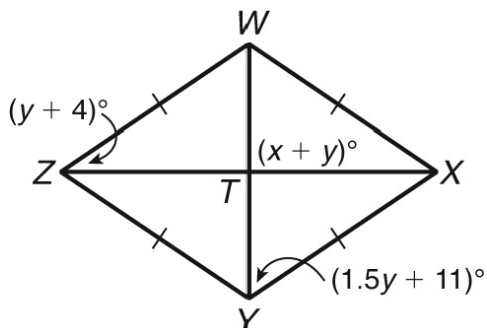


- A. $\overleftrightarrow{EF} \perp \overline{AB}$ and $\overleftrightarrow{EF} \perp \overline{CD}$
B. $m\angle BEF + m\angle EFC = 180^\circ$
C. $\angle ABD \cong \angle CDB$
D. $\overline{BA} \cong \overline{DC}$

- _____ 14. The vertices of a quadrilateral are formed by the intersection of the lines for the equations $y = x$, $y = -x$, $y = 3$, and $y = -3$. Which term best describes the quadrilateral?

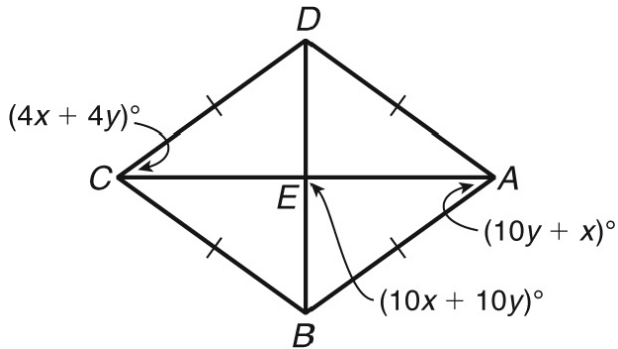
- F. parallelogram
G. rectangle
H. rhombus
J. square

- _____ 15. In $\square WXYZ$, what is the value of x ?



- A. 30
B. 45
C. 60
D. Not here

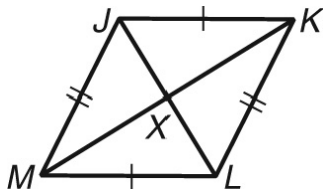
_____ 16. What is the value of y ?



- F. 2
G. 3

- H. 6
J. Not here

_____ 17. Given $\square JKLM$, which is valid?



- A. If $\angle JXK \cong \angle KXL$, then $JKLM$ is a rhombus.
B. If $\triangle JXM \cong \triangle LKX$, then $JKLM$ is a square/

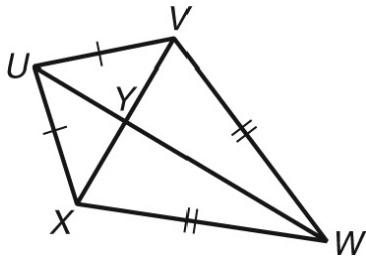
- C. If $\triangle JXM \cong \triangle LKX$, then $JKLM$ is a square.
D. If $\angle MJK \cong \angle KXL$, then $JKLM$ is a rectangle.

_____ 18. Which points are the vertices of a rectangle that is NOT a square?

- F. $(-10, 10), (0, 0), (14, 2), (4, 12)$
G. $(-4, 1), (-1, 4), (5, -2), (2, -5)$

- H. $(2, 2), (6, -2), (2, -6), (-2, -2)$
J. Not here

_____ 19. Given kite $UVWX$, which provides insufficient information to determine the measures of all the angles?



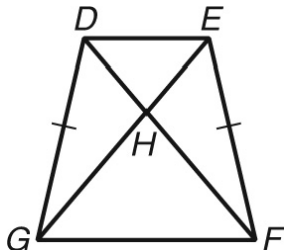
- A. $m\angle XUV$ and $m\angle WXX$
B. $m\angle XUY$ and $m\angle YWW$

- C. $m\angle XWY$ and $m\angle XUW$
D. $m\angle UXW$ and $m\angle UVW$

Name: _____

ID: A

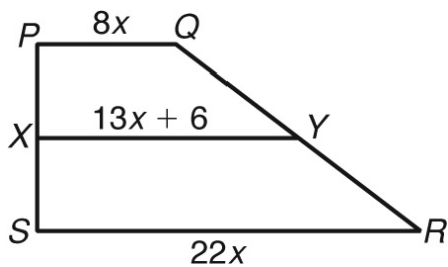
- _____ 20. In isosceles trapezoid $DEFG$, $DF = x^2 - 3x$ and $EG = -5x + 15$. What is the value of x ?



- F. -5
G. -3

- H. 3
J. 5

- _____ 21. In trapezoid $PQRS$, if \overline{XY} is the midsegment, what is the value of x ?



- A. 3
B. 8

- C. 12
D. 24

Geometry Chapter 6 Practice Test

Answer Section

MULTIPLE CHOICE

- | | | | |
|---|--------|---|----------------------------------|
| 1. ANS: C | PTS: 1 | DIF: 2 | TOP: Cumulative Test, Chapter 6 |
| MSC: DOK 2 | | | |
| 2. ANS: H | PTS: 1 | DIF: 2 | TOP: Cumulative Test, Chapter 6 |
| MSC: DOK 2 | | | |
| 3. ANS: B | PTS: 1 | DIF: 2 | TOP: Cumulative Test, Chapter 6 |
| MSC: DOK 2 | | | |
| 4. ANS: G | PTS: 1 | DIF: 2 | NAT: NT.CCSS.MTH.10.9-12.G.SRT.5 |
| TOP: Cumulative Test, Chapter 6 | | MSC: DOK 2 | |
| 5. ANS: D | PTS: 1 | DIF: 2 | NAT: NT.CCSS.MTH.10.9-12.G.SRT.5 |
| TOP: Cumulative Test, Chapter 6 | | MSC: DOK 2 | |
| 6. ANS: H | PTS: 1 | TOP: Chapter 6 Multiple Choice Test, Form C | |
| MSC: DOK 2 | | | |
| 7. ANS: B | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 8. ANS: J | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 9. ANS: A | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 10. ANS: J | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 11. ANS: B | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 12. ANS: H | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 13. ANS: D | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 14. ANS: J | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 15. ANS: C | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 16. ANS: G | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 17. ANS: A | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 18. ANS: G | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 19. ANS: D | PTS: 1 | DIF: 2 | NAT: NT.CCSS.MTH.10.9-12.G.SRT.5 |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 20. ANS: F | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |
| 21. ANS: A | PTS: 1 | DIF: 2 | |
| TOP: Chapter 6 Multiple Choice Test, Form C | | | MSC: DOK 2 |